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Title: A device for fastening a heat sink with a CPU

Abstract : (The reference numbers are added by our side.)

A fastening device (3) for a heat sink (6) and a CPU (7) has a resilient fastening body (40) and has no additional positioning pin in prior arts to simplify the processes of assembling the heat sink (6) and CPU (7) and thus to reduce cost. The fastening device (3) includes a positioning rod (30) with a limiting head (31) at one end, a resilient element (50) being sleeved on the positioning rod (30), and the fastening body (40). The fastening body (40) includes a lateral face (41) and two connecting arms (43) perpendicularly extending from two ends of the lateral face (41). A free end of the positioning rod (30) orderly passes through the fastening body (40), the resilient element (50), and a hole (611) preformed in the heat sink (6). The free end of the positioning rod (30) protrudes from the hole (611) and functions as a positioning pin to align the heat sink (6) with the CPU (7). When the fastening body (40) is pressed down, the resilient element (50) is compressed and the connecting arms (43) downwards snap against the CPU to secure the heat sink (6) and CPU (7). The fastening device (3) can simplify the fastening and assembling operations.